

INCH-POUND

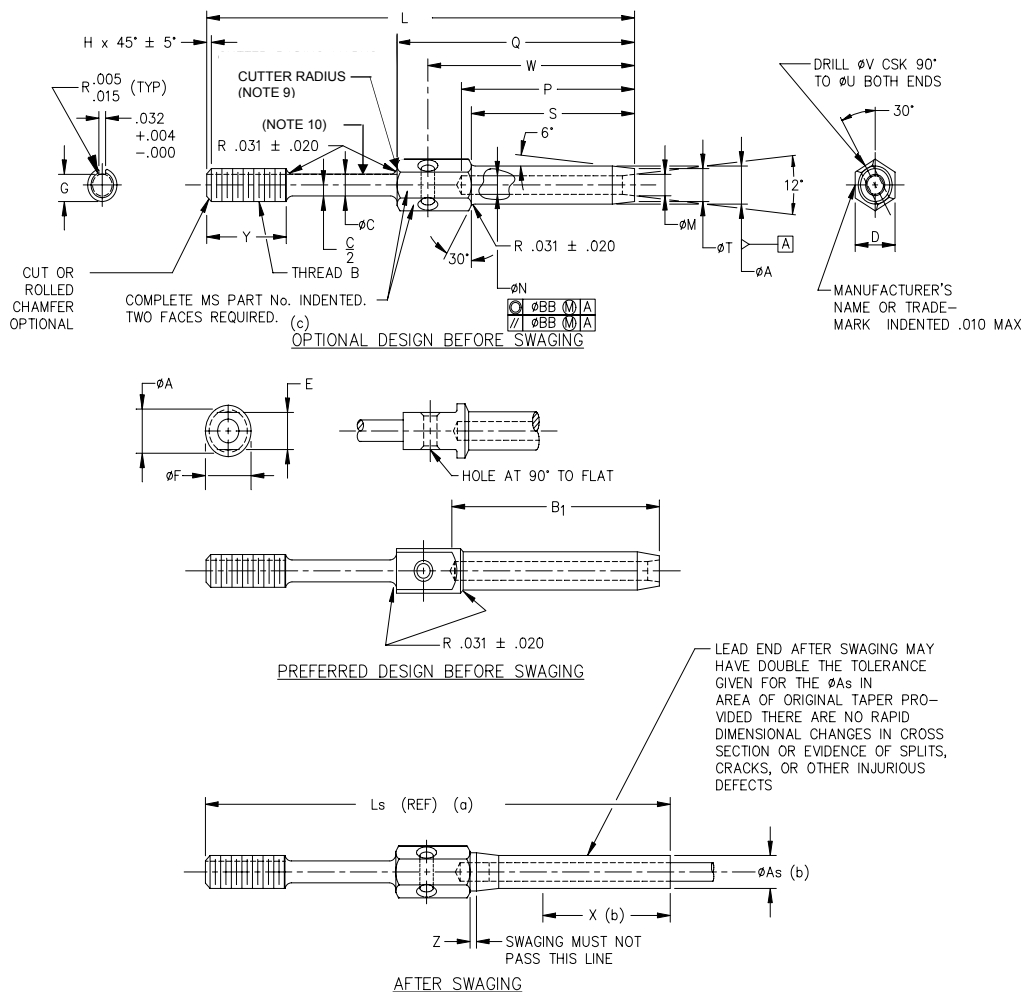
MS21260M
w/Amendment 3
2 January 2008
SUPERSEDING
MS21260M
w/Amendment 2
12 October 2007

DETAIL SPECIFICATION SHEET

TERMINAL, WIRE ROPE, SWAGING STUD

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet, MIL-DTL-781, and QPL-781.



- NOTES: (a) Reference dimensions are for design purposes only and are not an inspection requirement.
(b) Swaged terminals shall conform to 'φAs' for length X.
(c) For terminal sizes -2 through -5, use basic part number only, example: MS21260.

FIGURE 1. Terminal, wire rope, swaging stud.

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TABLE I. Dash numbers and dimensions.

Dash number		Wire rope diameter		Minimum breaking strength lb ₁ /	Thread B UN-3A UNF-3A	ØA		ØAs	
		Nominal reference	Minimum						
RH thread	LH thread	1/16	0.062	480	0.1380 (# 6)-40	0.160	+0.000 -0.005	0.138	+0.000 -0.005
L2RH	L2LH								
S2RH	S2LH	1/8	0.125	2000	0.2500 (1/4)-28	0.250	+0.000 -0.005	0.219	+0.000 -0.005
L3RH	L3LH								
S3RH	S3LH	3/16	0.187	4200	0.3750 (3/8)-24	0.359	+0.000 -0.005	0.313	+0.000 -0.005
L4RH	L4LH								
S4RH	S4LH	1/4	0.250	7000	0.5000 (1/2)-20	0.494	+0.000 -0.005	0.438	+0.000 -0.005
L5RH	L5LH								
S5RH	S5LH	5/16	0.312	9800	0.6250 (5/8)-18	0.781	+0.000 -0.005	0.563	+0.000 -0.005
L6RH	L6LH								
S6RH	S6LH	7/16	0.437	17600	0.7500 (3/4)-16	0.984	+0.000 -0.005	0.688	+0.000 -0.005
-7RH	-7LH								
-8RH	-8LH	9/16	0.562	28500	1.0000 (1)-12	1.359	+0.000 -0.005	0.875	+0.000 -0.005
-9RH	-9LH								
-10RH	-10LH	3/4	0.750	49600	1.2500 (1 1/4)-12	1.812	+0.000 -0.010	1.250	+0.000 -0.010
-12RH	-12LH								
-14RH	-14LH	1	1.000	85400	1.2500 (1 1/4)-12	1.812	+0.000 -0.010	1.625	+0.000 -0.012
-16RH	-16LH								
-18RH	-18LH	1	1.000	85400	1.2500 (1 1/4)-12	1.812	+0.000 -0.010	1.625	+0.000 -0.012
-20RH	-20LH								
-24RH	-24LH	1	1.000	85400	1.2500 (1 1/4)-12	1.812	+0.000 -0.010	1.625	+0.000 -0.012
-28RH	-28LH								
-32RH	-32LH	1	1.000	85400	1.2500 (1 1/4)-12	1.812	+0.000 -0.010	1.625	+0.000 -0.012

1/ To achieve the minimum breaking strength, for the terminal test only, a galvanized carbon steel wire rope shall be used.

TABLE I. Dash numbers and dimensions - Continued.

Dash number		B ₁		ØC +0.006 -0.000	D	E	ØF	G		H	
								Maximum	Minimum	Maximum	Minimum
RH thread	LH thread	1.042	±0.063	0.092	0.188	0.156	0.188	0.1139	0.1094	0.031	0.015
L2RH	L2LH										
S2RH	S2LH	1.261	±0.063	0.133	0.250	0.187	0.250	0.1638	0.1568	0.047	0.015
L3RH	L3LH										
S3RH	S3LH	1.511	±0.063	0.195	0.313	0.250	0.313	0.2224	0.2152	0.047	0.015
L4RH	L4LH										
S4RH	S4LH	1.761	±0.063	0.245	0.375	0.312	0.375	0.2830	0.2754	0.047	0.015
L5RH	L5LH										
S5RH	S5LH	2.011	±0.063	0.306	0.438	0.375	0.438	0.3454	0.3378	0.047	0.015
L6RH	L6LH										
S6RH	S6LH	2.261	±0.063	0.361	0.625	0.563	0.625	0.4052	0.4072	0.047	0.015
-7RH	-7LH										
-8RH	-8LH	2.511	±0.063	0.406	0.688	0.625	0.688	0.4678	0.4597	0.047	0.015
-9RH	-9LH										
-10RH	-10LH	3.011	±0.063	0.476	0.750	0.688	0.750	0.5285	0.5201	0.063	0.031
-12RH	-12LH										
-14RH	-14LH	4.011	±0.063	0.538	0.812	0.750	0.812	0.5909	0.5826	0.063	0.031
-16RH	-16LH										
-18RH	-18LH	5.011	±0.063	0.654	1.000	0.875	1.000	0.7137	0.7050	0.078	0.048
-20RH	-20LH										
-24RH	-24LH	6.511	±0.063	0.768	1.125	1.000	1.125	0.8558	0.8266	0.078	0.048
-28RH	-28LH										
-32RH	-32LH	8.229	±0.063	1.128	1.875	1.625	1.812	1.2069	1.1972	0.094	0.062

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TABLE I. Dash numbers and dimensions - Continued.

Dash number	L ±0.063	Ls reference	ØM		ØN		P		Q +0.031 -0.016	S +0.062 -0.000	ØT	
L2	3.491	3.67	0.090		0.078		1.042		1.319	0.969	0.138	+0.000 -0.005
S2	2.616	2.79										
L3	3.738	3.86	0.119		0.109		1.261		1.581	1.188	0.190	
S3	2.863	2.98										
L4	4.020	4.28	0.154		0.141		1.511		1.863	1.438	0.219	
S4	3.145	3.40										
L5	4.314	4.66	0.188	+0.010 -0.000	0.172	+0.005 -0.000	1.761	+0.031 -0.000	2.157	1.688	0.250	
S5	3.439	3.78										
L6	4.612	4.78	0.223		0.203		2.011		2.455	1.938	0.313	
S6	3.737	3.90										
-7	4.914	5.21	0.257		0.234		2.261		2.757	2.188	0.375	+0.000
-8	5.218	5.52	0.291		0.265		2.511		3.061	2.438	0.438	-0.007
-9	5.542	5.90	0.326		0.297		2.761		3.385	2.688	0.500	
-10	5.875	6.30	0.360		0.328		3.011		3.718	2.938	0.563	+0.000
-12	6.608	7.01	0.430		0.390	+0.008	3.511		4.281	3.438	0.625	-0.008
-14	7.468	7.94	0.514		0.468	-0.000	4.011	+0.047 -0.000	4.812	3.938	0.688	
-16	8.718	9.28	0.584	+0.012 -0.000	0.531	+0.009	4.698		5.562	4.625	0.750	+0.000
-18	9.188	9.78	0.653		0.594	-0.000	5.011	6.000	4.938	0.875	-0.009	
-20	10.469	11.16	0.722		0.656	+0.010 -0.000	5.511	+0.062 -0.000	6.750	5.438	1.000	+0.000 -0.010
-24	12.188	12.76	0.860		0.781		6.511		7.938	6.438	1.250	
-28	12.851	13.61	1.013	+0.015 -0.000	0.921	+0.012	7.166		8.601	7.094	1.437	+0.000
-32	14.624	15.53	1.151		1.046	-0.000	8.229		9.844	8.156	1.625	-0.012

TABLE I. Dash numbers and dimensions - Continued.

Dash number	ØU reference	ØV ±0.005	W ±0.016	X	Y	Z	ØBB
				Minimum	±0.047 2/	Minimum	
L2	0.094	0.063	1.174	0.70	0.375	0.03	0.008 (0.016 FIM)
S2							
L3							
S3							
L4	0.125	0.098	1.682	1.05	0.563		
S4							
L5							
S5							
L6							
S6							
-7							
-8							
-9	0.188	0.125	6.093	5.04	1.750	0.010 (0.020 FIM)	
-10							
-12							
-14							
-16							
-18							
-20							
-24							
-28							
-32							

2/ Includes last full thread engagement.

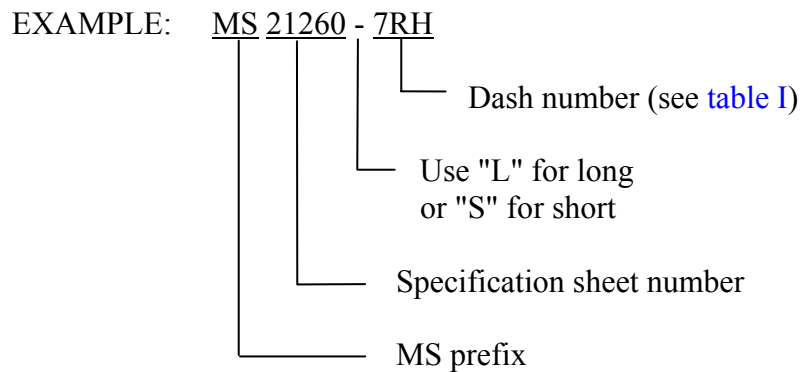
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REQUIREMENTS:

1. Material: Material shall be in accordance with MIL-DTL-781
2. Finish: Finish shall be in accordance with MIL-DTL-781.
3. Threads: Threads shall be in accordance with FED-STD-H28/20.
4. Swage: Swage shall be in accordance with MIL-DTL-6117.
5. Tolerances: Unless otherwise specified, tolerances: decimals ± 0.010 , angles $\pm 3^\circ$.

NOTES:

1. The part or identifying number (PIN) to be used for terminals acquired to this specification is created as shown below. An "L" in lieu of dash indicates long; an "S" in lieu of a dash indicates short. The two letters following the dash number or letters "L" or "R" indicates direction of thread (left or right hand).



MS21260L2RH Indicates - Terminal, 0.1380 (#6)-40 right hand thread, long.
MS21260-7RH Indicates - Terminal, 0.3750 (3/8)-24 right hand thread.

2. Dimensions are in inches.
3. Remove burrs and sharp edges. (See MIL-DTL-781.)
4. Interpret drawing in accordance with ASME Y14.5M.
5. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.
6. Unless otherwise specified, issues of reference documents are those in effect at the time of solicitation.

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7. Interchangeability relationship: MS21260 parts can universally replace the canceled AN669 and NAS650 parts identified by the same dash number; but the canceled AN669 and NAS650 parts cannot replace the superseding MS21260 parts. MS21260 corrosion resistant steel parts can universally replace the canceled carbon and alloy steel parts identified by the same dash number.

8. Carbon and alloy steel parts are inactive for new design.

9. Cutter radius mark, which is used as a clip slot alignment indicator, must be present on this surface.

10. During fabrication of the clip slot groove, operation of the cutter shall be maintained for the length of the terminal shank until engagement of the wrenching shoulder surface occurs (see [note 9](#)). Depending upon the part tolerance conditions, the cutter radius marks may or may not appear on shank surface and shall not be cause for rejection.

11. Locking clip slot (dimension G) is optional for sizes -12 and above.

AMENDMENT ANNOTATIONS: The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

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Navy - AS
Air Force - 99

Preparing Activity:

DLA - GS5

(Project 1640-2008-001)

Review Activities:

Army - CR4
Navy - MC
Air Force - 71

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